

CLAIMS

What is claimed is:

- 5      1. A support assembly for supporting at least one cable connected to a circuit board assembly, the support assembly comprising:
  - a support defining a first plane;
  - a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly; and
- 10        a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly and the at least one cable exerts a load on the support.
- 15        2. The support assembly of claim 1 wherein the lip of the support assembly defines a stop, the stop substantially perpendicular to the first plane defined by the support and configured to abut a faceplate in communication with the circuit board assembly, the stop configured to limit rotation of the support relative to the faceplate when the at least one cable exerts a load on the support.
- 20        3. The support assembly of claim 2 further comprising a coupling member in communication with the lip, the coupling member configured to engage the faceplate via an opening, defined by the faceplate, to form a latch, the latch configured to couple the support assembly to the faceplate.
- 25        4. The support assembly of claim 3 wherein the lip defines a height relative to the support, the height of the lip configured to align the coupling member with a chassis

fastening mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate.

5. The support assembly of claim 1 further comprising a coupling member in communication with the support, the a coupling member configured to engage a faceplate in communication with the circuit board assembly via an opening, defined by the faceplate, to form a latch to couple the support assembly to the faceplate.
10. The support assembly of claim 5 wherein the coupling member is configured to align with a chassis fastening mechanism coupled to the faceplate and adjacent to the opening defined by the faceplate.
15. The support assembly of claim 1 wherein the connection portion is configured to couple with a ground plane of the circuit board assembly.
8. The support assembly wherein:
  - the support comprises a handle having a first arm and a second arm in communication with the first arm, the handle configured to couple with the circuit board assembly; and
  20. the lip comprises a first lip in communication with the first arm, the first lip defining a first plane substantially perpendicular to the first arm and a second lip in communication with the second arm, the second lip defining a second plane substantially perpendicular to the second arm, the first lip and the second lip configured to limit deflection of the handle relative to the circuit board assembly when the at least one cable exerts a load on the handle.
  25. 9. A faceplate assembly comprising:
    - a faceplate configured to couple to a circuit board assembly, the faceplate defining

an opening configured to provide access to a cable connector of the circuit board assembly; and

5        a support assembly for supporting at least one cable connected to the cable connector of the circuit board assembly, the support assembly in communication with the faceplate and the support assembly having:

          a support defining a first plane;

          a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly; and

10        a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly and the at least one cable exerts a load on the support.

15        10. The faceplate assembly of claim 9 wherein the lip of the support defines a stop, the stop substantially perpendicular to the first plane defined by the support and configured to abut the faceplate in communication with the circuit board assembly, the stop configured to limit rotation of the support relative to the faceplate when the at least one cable exerts a load on the support.

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11. The faceplate assembly of claim 10 further comprising a coupling member in communication with the lip, the coupling member configured to engage the faceplate via an opening, defined by the faceplate, to form a latch, the latch configured to couple the support assembly to the faceplate.

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12. The faceplate assembly of claim 11 wherein:

          the faceplate comprises a chassis fastening mechanism; and

          the lip defines a height relative to the support, the height of the lip configured to

align the coupling member with the chassis fastening mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate.

13. The faceplate assembly of claim 9 wherein the support further comprises a coupling  
5 member in communication with the support, the a coupling member configured to engage  
the faceplate via an opening, defined by the faceplate, to form a latch to couple the  
support assembly to the faceplate.

14. The faceplate assembly of claim 13 wherein the coupling member is configured to  
10 align with a chassis fastening mechanism coupled to the faceplate and adjacent to the  
opening defined by the faceplate.

15. The faceplate assembly of claim 9 wherein the connection portion is configured to  
couple with a ground plane of the circuit board assembly.

16. The faceplate assembly of claim 9 wherein:  
the support comprises a handle having a first arm and a second arm in  
communication with the first arm, the handle configured to couple with the circuit board  
assembly; and

20 the lip comprises a first lip in communication with the first arm, the first lip  
defining a first plane substantially perpendicular to the first arm and a second lip in  
communication with the second arm, the second lip defining a second plane substantially  
perpendicular to the second arm, the first lip and the second lip configured to limit  
deflection of the handle relative to the circuit board assembly when the at least one cable  
25 exerts a load on the handle.

17. A circuit board module comprising:  
a circuit board assembly having a circuit board and a cable connector coupled to

the circuit board; and

a faceplate assembly including:

a faceplate coupled to the support mount of the circuit board assembly and defining an opening to provide access to the cable connector; and

5 a support assembly for supporting at least one cable connected to the cable connector of the circuit board assembly, the support assembly in communication with the faceplate and the support assembly having:

a support defining a first plane;

a connection portion in communication with the support, the

10 connection portion coupled with the circuit board assembly; and

a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the at least one cable exerts a load on the support.

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18. The circuit board module of claim 17 wherein the lip of the support defines a stop, the stop substantially perpendicular to the first plane defined by the support and in communication with the faceplate, the stop configured to limit rotation of the support relative to the faceplate when the at least one cable exerts a load on the support.

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19. The circuit board module of claim 18 further comprising a coupling member in communication with the lip, the coupling member engaging the faceplate via an opening, defined by the faceplate, to form a latch, the latch configured to couple the support assembly to the faceplate.

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20. The circuit board module of claim 19 wherein:

the faceplate comprises a chassis fastening mechanism; and

the lip defines a height relative to the support, the height of the lip aligning the

coupling member with the chassis fastening mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate.

21. The circuit board module of claim 17 wherein the support further comprises a coupling member in communication with the support, the a coupling member engaging the faceplate via an opening, defined by the faceplate, to form a latch to couple the support assembly to the faceplate.  
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22. The circuit board module of claim 21 wherein the coupling member aligns with a chassis fastening mechanism coupled to the faceplate and adjacent to the opening defined by the faceplate.  
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23. The circuit board module of claim 17 wherein the connection portion couples with a ground plane of the circuit board assembly.  
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24. The circuit board module of claim 17 wherein:  
the support comprises a handle having a first arm and a second arm in communication with the first arm, the handle configured to couple with the circuit board assembly; and  
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the lip comprises a first lip in communication with the first arm, the first lip defining a first plane substantially perpendicular to the first arm and a second lip in communication with the second arm, the second lip defining a second plane substantially perpendicular to the second arm, the first lip and the second lip configured to limit deflection of the handle relative to the circuit board assembly when the at least one cable exerts a load on the handle.  
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25. A method for assembling a circuit board module comprising:  
coupling a faceplate to a circuit board assembly, the faceplate defining an

opening;

placing a coupling member of a support assembly within the opening defined by the faceplate; and

engaging the coupling member of the support assembly with the faceplate to

5 couple the support assembly to the faceplate.

26. The method of claim 25 comprising rotating the support assembly relative to the faceplate to form a latch with the coupling member and the faceplate.

10 27. The method of claim 25 wherein the step of placing comprises placing a coupling member of a support assembly within the opening defined by the faceplate, the support assembly having:

a support defining a first plane;

a connection portion in communication with the support, the connection portion

15 configured to couple with the circuit board assembly; and

a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the at least one cable exerts a load on the support.

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28. The method of claim 27 further comprising abutting a stop of the support assembly against the faceplate, the lip of the support defining the stop, the stop substantially perpendicular to the first plane defined by the support, and the stop limiting rotation of the support relative to the faceplate when at least one cable exerts a load on the support.

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